This listing of the claims will replace all prior versions, and listings of claims in the application.

**In the Claims**

1. (Currently Amended)  A system that provides a user of a single analog line multiple uses of said line comprising;

a modem connected to a fixed logic system which multiplexes or demultiplexes data;

said modem compressing a signal traveling through said analog line;

said modem providing simultaneous transmission of two, or more, speech or data calls;

said simultaneous transmission by compressing conventional analog voice traffic to occupy less band width;

said modem is programmable.

2. (Cancelled)

3. (Previously Presented)  The system of claim 1 wherein said modem incorporates Handel-C.

4. (Previously Presented)  The system of claim 1 wherein said system is reprogrammed as needed.

5. (Previously Presented)  The system of claim 1 wherein said modem is downloaded on analog lines, cable, satellite and fiber lines.

6. (Cancelled)

7.  (Previously Presented)  The system of claim 1 further comprising a speech compression algorithm requiring between about 5.6 to 6.4 kbps of bandwidth.

8.  (Previously Presented)  The system of claim 1 wherein said modem further comprises field programmable gate array chips.

9.  (Previously Presented)  The system of claim 1 wherein said system is connected to a copper line by a COTS modem.

10.  (Previously Presented)  The system of claim 1 wherein said system comprises two modems, one at each end of an analog line;

a first modem compresses and multiplexes data at a source end of said line;

and a second modem demultiplexes and expands data at an exchange end of a copper line.

11.  (New)  A system that provides a user of a single analog line multiple uses of said line comprising;

a modem connected to a fixed logic system which multiplexes or demultiplexes data;

said modem compressing a signal traveling through said analog line;

said modem providing simultaneous transmission of two, or more, speech or data calls;

said simultaneous transmission by compressing conventional analog voice traffic to occupy less band width;

said modem is programmable;

said modem is downloaded on analog lines, cable, satellite and fiber lines;

a speech compression algorithm requiring between about 5.6 to 6.4 kbps of bandwidth;

said modem comprising field programmable gate array chips.